- 1. A circuit arrangement
- having a terminal (1) for a high-frequency signal,
- having at least two additional signal leads (21a, 21b, 21c, 22a, 22b) which form transmission/reception paths.
 - having a switching unit (3) for connecting the terminal (1) to a signal lead (21a, 21b, 21c, 22a, 22b),
 - having a primary protection device (41) against electrostatic discharges which is connected between the terminal (1) and the switching unit (3),
- wherein the primary protection device (41) contains a first protective element (51) which diverts all voltage pulses whose pulse height exceeds 200 V to reference potential (7),
 - wherein the first protective element (51) has a capacitance (8) which is less than 1 pF,
- wherein the first protective element (51) has an insertion loss which is less than 0.3 dB.
 - wherein the switching unit (3) and the primary protection device (41) are integrated in or on a multilayer substrate.
- The circuit arrangement as recited in claim 1,
 wherein the first protective element (51) is a gallium arsenide double diode.

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3. The circuit arrangement as recited in claim 1 or 2.

wherein the primary protection device (41) contains a lead (6), which connects the terminal (1) to the switching unit (3) and wherein the first protective element (51) connects the lead (6) to the reference potential (7).

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4. The circuit arrangement as recited in one of claims 1 through 3, wherein a second protective element (52) is connected in parallel to the first protective element (51).

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5. The circuit arrangement as recited in claim 4,
wherein a capacitor (8) is connected in series to the lead (6) between the first
protective element (51) and the second protective element (52).

- 6. The circuit arrangement as recited in one of claims 4 or 5, wherein the second protective element (52) is a spark gap.
- 7. The circuit arrangement as recited in one of claims 4 or 5, wherein the second protective element (52) is a polymer suppressor.
- 8. The circuit arrangement as recited in one of claims 4 or 5, wherein the second protective element (52) is an overvoltage component whose capacitance is smaller than 1 pF.

- The circuit arrangement as recited in one of claims 4 or 5,
 wherein the second protective element (52) is an inductance greater than 18 nH.
- 5 10. The circuit arrangement as recited in one of claims 1 through 9.
 - wherein one or a plurality of control leads (91, 92, 93) are provided for the control of the switching unit,
 - wherein each control lead (91, 92, 93) is connected to a secondary protection device (42) against electrostatic discharges.
- 11. The circuit arrangement as recited in one of claims 1 through 10, wherein a supply lead (100) for an operating voltage (VCC) is provided, the supply lead being connected to a secondary protection device (42) against electrostatic discharges.
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- 12. The circuit arrangement as recited in one of claims 1 through 11.
- wherein the switching unit (3) contains two field effect transistors (111, 112), the break distance (121, 122) of each field effect transistor (111, 112) connecting the terminal (1) to a signal lead (21a, 21b, 21c, 22a, 22b).
- wherein each gate (131, 132) of each field effect transistor (111, 112) is connected to a control lead (91, 92),

- and wherein each gate (131, 132, 93) is connected to a secondary protection device (42) against electrostatic discharges.
- 13. The circuit arrangement as recited in one of claims 10 through 12,
 wherein a secondary protection device (42) contains a protective element (53a,
 53b, 53c, 54) having a switching voltage that is lower than 100 V.
- 14. The circuit arrangement as recited in one of claims 10 through 13,
 wherein a secondary protection device (42) contains a protective element (53a,
 53b, 53c, 54) which is a varistor.
 - 15. The circuit arrangement as recited in one of claims 10 through 13, wherein a secondary protection device (42) contains a protective element (53a, 53b, 53c, 54) which is a Zener diode.
 - 16. The circuit arrangement as recited in one of claims 10 through 15, wherein the one or a plurality of secondary protection devices (42) is connected to the reference potential (7).
- 20 17. The circuit arrangement as recited in one of claims 1 through 16, wherein the switching unit (3) contains PIN diodes.

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- 18. The circuit arrangement as recited in one of claims 1 through 16, wherein the switching unit (3) contains a gallium arsenide switch.
- 19. The circuit arrangement as recited in one of claims 1 through 18, wherein the terminal (1) is the antenna input of a mobile telephone.
- 20. The circuit arrangement as recited in one of claims 1 through 19, wherein the signal leads (21a, 21b, 21c, 22a, 22b) form transmission/reception paths of a mobile telephone.

21. The circuit arrangement as recited in one of claims 1 through 20, wherein the switching unit (3) and the primary protection device (41) are integrated in a multilayer ceramic substrate.